



OFFICE MEMORANDUM

DATE: July 19, 1996

TO: District Engineers
District Field/Construction Engineers
District Traffic and Safety Engineers
Resident/Project Engineers

FROM: Paul F. Miller
Engineer of Construction

SUBJECT: CONSTRUCTION INSTRUCTIONAL MEMORANDUM 1996-6
Night Reviews of Construction Projects

Recently, the Federal Highway Administration recommended that more frequent nighttime traffic control reviews be conducted within our construction zones to obtain more effective traffic controls.

Regular night reviews of construction zones at the project level with oversight at the district level are important because of reduced night visibility, substandard roadway conditions, and the motorist dependence on traffic control devices for safe guidance.

Therefore, the districts are requested to develop a program which will provide for regular night reviews of all construction projects.

As of this date, districts are instructed to initiate the following program.

1. The Project Engineer shall insure that nighttime reviews are done by project personnel at the beginning of a traffic control installation or adjustment; and at sufficient subsequent intervals to evaluate the effectiveness of the control and assure that the equipment is functioning properly.
2. Night review findings shall be recorded on a review summary list similar to the one attached and submitted to the Project Engineer for his review and evaluations.
3. Review findings which pose a serious safety problem and/or require immediate remedial action shall be called to the contractor's attention and corrected on priority basis.
4. Review findings of a less serious nature shall be corrected as deemed necessary.

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5. After corrective measures are completed and noted, the review summary list shall be filed in construction records.

Attached is a list of items to check during night reviews of construction zones.

Engineer of Construction

PFM:PAL:AQS:hr

attachment

cc: Construction Engineers
Construction Technicians
Traffic & Safety Division
Engineering Services Division
Design Division
M&T Division
OEO
G. Taylor
T. Coleman
MRBA
MAPA
MCPA
MCA
H. Linne
P. Fhaner
B. Hayes
J. Heilman
R. Beckon
P. Rang
J. Meszaros

Subject Index: Safety

WORK ZONE CONTROL NIGHT INSPECTION GUIDE

A.	<u>GENERAL</u>	<u>YES</u>	<u>NO</u>
1.	Safety - Are inactive devices, equipment and materials located outside the clear zone and/or properly delineated with warning lights and devices if located inside the clear zone.	-----	-----
2.	Quality Standards - Do the overall appearance of traffic control devices, both day and night, meet the standards listed in the ATTSA Quality Standards for Work Zone Traffic Control Devices Pamphlet?	-----	-----
3.	Lights - Are there a substantial number of lights on the various devices malfunctioning and/or operated in noncompliance with specifications?		-----
4.	Cleaning - Are there a substantial number of devices in need of cleaning?	-----	-----
5.	Covers - Are there signs or other devices in place which are inappropriate for traffic conditions that need to be taken down or entirely covered?	-----	-----
B.	<u>SIGNS</u>		
1.	Standard - Are the signs in conformance with standard sign layout?	-----	-----
2.	Color - Is the color of the sign correct?	-----	-----
3.	Visibility - Are the signs visible without any physical obstruction?	-----	-----
4.	Reflectivity - Are the signs readable?	-----	-----
5.	Lights - Are the lights working and properly located on warning signs?	-----	-----
6.	Covers - Are the sign covers in basic compliance with specifications?	-----	-----
7.	Layout and Overlays - Does the sign look professionally made? Are the message overlays acceptable?	-----	-----
8.	Installation - Are the sign post plumb? Is the sign face perpendicular to the roadway?	-----	-----
C.	<u>DRUMS</u>		
1.	Lights - Are there a substantial number of lights malfunctioning or of weak intensity? Approximately how many or what percentage of total?	-----	-----

		<u>YES</u>	<u>NO</u>
	Lights - Are there a substantial number of lights in need of directional adjustment (orientation)? Approximately how many or what percentage of total?	-----	-----
2.	Condition - Is the overall physical condition of drum acceptable?	-----	-----
3.	Reflectivity - Is the reflective tape on drum acceptable?	-----	-----
4.	Cleaning - Is there a substantial number of drums in need of cleaning?	-----	-----
5.	Alignment and Placement - Are drums properly aligned and spaced?	-----	-----
6.	Tapers - Do delineated tapers on lane closures meet the length dictated by approaching speed?	-----	-----
D.	<u>MARKINGS</u>		
1.	Application - Are temporary markings applied and placed in basic compliance with specifications?	-----	-----
2.	Removal - Have nonapplicable and conflicting pavement markings been removed?	-----	-----
3.	Existing - Are existing pavement markings throughout the construction zone in satisfactory reflective condition?		-----
4.	Need - Is there a need for additional pavement marking applications?	-----	-----
E.	<u>BARRICADES, TYPE III</u>		
1.	Reflectivity - Is the barricade with three reflectorized rails highly visible? Are the rails also reflectorized on the back when exposed to approaching traffic on adjacent lane?		-----
2.	Lights - Are there three working steady -burn lights on top rail?		-----
3.	Size of Rails - Are the rails of the barricade the correct size (1" x 8" boards)?	-----	-----
4.	Partial Road Closure - When installed, is the "Road Closed, Local Traffic Only" and large "Detour" arrow signs mounted only to the top rail and not covering any of the middle rail?	-----	-----
5.	Road Closures - Are complete road closures totally sealed off (including shoulders) and the proper signs installed (i.e. "Road Closed" and large "Detour" arrow signs as necessary)?	-----	-----
F.	<u>ARROW BOARDS</u>		
1.	Safety - In lane closures, is the arrow board positioned on roadside at the beginning of taper and/or behind channelizing		

devices near as possible to beginning taper? -----

- | | | <u>YES</u> | <u>NO</u> |
|----|--|-------------------|------------------|
| 2. | Lights - Are any lights on the board malfunctioning or misaligned?
Is the board on proper flashing mode? | ----- | ----- |
| 3. | Brightness - Are the lights on arrow board dimmed to nighttime
levels of brightness? | ----- | ----- |
| 4. | Legibility - Is the board visible and legible from a minimum distance
of 1500 feet in advance? | ----- | ----- |